Proposed CIE output linearization for display and data projector devices

Display or data projector company:

realized output options:
One Company preference (Y/N)?
One ISO 9241–306 linearized (Y/N)?
Eigth ISO 9241–306 linearized (Y/N)?
Only one option not specified (Y/N)?

Linearization company: <
Measure 1080 colours of display output
with no room light reflection and produces
8 PS linarization codes
for eight room light reflections.

User display or data projector
without or with device specific
up to 8 PS linearization codes
in display output software.

For test charts of ISO 9241–306 see (1,7 and 20MB)
http://standards.iso.org/iso/9241/306/ed-2/AE09/AE09F0PX.PDF
http://standards.iso.org/iso/9241/306/ed-2/AE27/AE27F0PX.PDF

Advantages of Output Linearization:
– Linear relation between rgb and CIELAB data.
– No loss of visual information for 16 step
  colour series on different devices.
– Linearized output of whole display for ergonomic
  work depending on room light reflections,
  for solutions see ISO 9241–306.

User visual test for up to 8 room light reflections
with output of ISO 9241–306 test charts.
Agrees the output with the user wishes (Y/N)?

If No (N) agreement to the user wishes then:
Output of reference test chart with 1080 colours.
Continues colour change in output (Y/N)?
If Yes, then linearization possible and decision:
Ask display or linearization company for help. →

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